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FIELD SERVICE AND SUPPORT

PROGRESS REPORT NO. 13

1 FEBRUARY 1960 THROUGH 29 FEBRUARY 1960

CMCC DOCUMENT NO. 163x5.110

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I. INTRODUCTION

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This report describes the February 1960 activity for Contracts A-102, [redacted] and HF-CT-699.

II. CONTRACT A-102

A. WORK PERFORMED FOR CUSTOMER A

1. Sustaining Engineering

a. Field Service Bulletins

Two FSB's were being prepared during this report period. A third bulletin, started in January 1960, was cancelled by the Contractor. The cancelled bulletin gave instructions for relocating the mounting position of the replacement power transformer in the S603 Traveling Wave Tube Amplifier. Relocating the transformer would have made it easier to remove the traveling wave tubes. The bulletin was cancelled because the Contractor received confirmation in February that all replacement transformers had been installed.

b. Engineering Change Proposals

One Engineering Change Proposal for the System 4 Data Reduction Equipment was disapproved.

c. Test Equipment

25X1D

Huggins Laboratories will no longer guarantee the [redacted] traveling wave tube. The Contractor assembled the necessary standard test equipment and parts to make performance checks on new tubes before they are delivered to the customer.

d. Systems 1 and 3 Information Recorder (MP 10737)

Customer C has instituted a rigorous preventive maintenance program for the Systems 1 and 3 tape recorders. This program has reduced the recorder malfunctions to less than 5% of the 60 to 70 missions per month. The preventive maintenance procedures stress cleanliness of all moving parts, careful alignment of close-tolerance assemblies, and routine adjustment of spring tensions.

An identical program may not benefit Customer A to that extent. However, the procedures are being checked and will be sent to the overseas locations. Customer C has more maintenance personnel than Customer A and can devote more time to preventive maintenance. Customer C also has newer recorders, and the environmental conditions are not as severe as those encountered by Customer A.

Other tests at the Contractor's facility indicate that some improvement in performance may be gained by removing the mu metal from the recorder capstan drive motor. Originally, this shield was required to reduce the noise in the playback amplifiers to a tolerable level. The playback amplifiers are no longer used by Customer A. Contractor recommendations will be forthcoming.

2. Repair and Retrofit

a. Inventory

The Repair and Retrofit Inventory for February is listed in Table 2.

b. System 3 Third Local Oscillator Subassembly

The Contractor's Repair and Retrofit Laboratory has noticed that many of the returned System 3 third local oscillator boards have "worn-out" printed wiring. The defective wiring is caused by repeated soldering operations during normal field maintenance. In these cases, it is necessary to salvage the components and install them on new printed circuit boards. If the unit is merely repaired instead of overhauled, a new malfunction is certain to occur within a short time. The cost of overhaul is approximately $700. The cost of a new third local oscillator subassembly is approximately $2000.00.

The field locations should log the frequency of malfunctions and use the log as an indication of need for overhaul.

B. WORK PERFORMED FOR CUSTOMER C

1. Sustaining Engineering

a. Field Service Bulletins

The System 4 equipments belonging to Customer C will be "mothballed" in the near future. As a result, one FSB and the associated modification kits were cancelled by the Depot and one ECP was disapproved by the WSPO. There are no other FSB's in process.

b. Data Reduction Equipment

The Contractor's representatives at the overseas Data Reduction Centers have suggested methods of

increasing the utility of the Data Reduction Racks associated with the Project and FOG programs. Some modifications were required, but none of the modifications compromised interchangeability of equipment. The using commands have adopted some of these suggestions enthusiastically. In particular, the System 4 Data Reduction Equipment has been adapted to process [redacted] data. All changes and modifications completed at both Data Reduction Centers are being coordinated and documented by the Contractor. A report and pertinent logistic data will be sent to the WSPO and the Depot.

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2. Repair and Retrofit

The Repair and Retrofit Inventory for February is listed in Table 2.

C. WORK PERFORMED FOR CUSTOMER D

The February activity was confined to the routine analysis of field reports and failure reports. A field request for a [redacted] kit was referred to Customer D Headquarters. There is sufficient money in the Call Contract for the necessary kits, but the design of the kit will cost about $15,000. The design cost is the subject of a separate proposal.

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III. CONTRACT [redacted]

The majority of the items on Equipment List HH have been shipped. The remaining items and the approximate delivery dates are listed in Table 3.

IV. CONTRACT HF-CT-699

The Call Contract Inventory for February is shown in Table 4.

TABLE 1

FIELD SERVICE BULLETIN AND MODIFICATION KIT STATUS AS OF 29 FEBRUARY 1960

Item	Customer	Field Service Bulletin Number	System	Unit	Description	Field Service Bulletin Status	Mod Kit Status
1	A	S603-2A	6	S603 Dual Channel Amplifier	Traveling Wave Tube Filament Voltage Correction	In Progress	N/A
2	A and C	M-2	System 4 Data Reduction Equipment	Display Unit MP-12363	Addition of Vernier Dials Auxiliary Data Display Equipment (M Rack)	ECP Disapproved	
3	A	S603-4	6	S603 Dual Channel Amplifier	Power Supply and Tangential Sensitivity Adjustments for the S603 Dual Channel Amplifiers (Confidential)	In Progress	N/A
4	C	4-19	4	SLOE Equipment	Additional Test Equipment and New Test Procedure for System 4 Crystal Video Receiver	Cancelled	
5	A	S603-3A	6	S603 Dual Channel Amplifier	Additions and Corrections to Field Service Bulletin S603-3	Cancelled	

TABLE 2

REPAIR AND RETROFIT INVENTORY FOR FEBRUARY 1960

Customer	Rework Units Outstanding on 1 Feb. 1960	During February			Rework Units Backlog on 29 Feb. 1960
		Units Received	Units Shipped	Units Nonreparable	
A	80	23	42	4	57
C	27	17	14	6	24
D	0	0	0	0	0

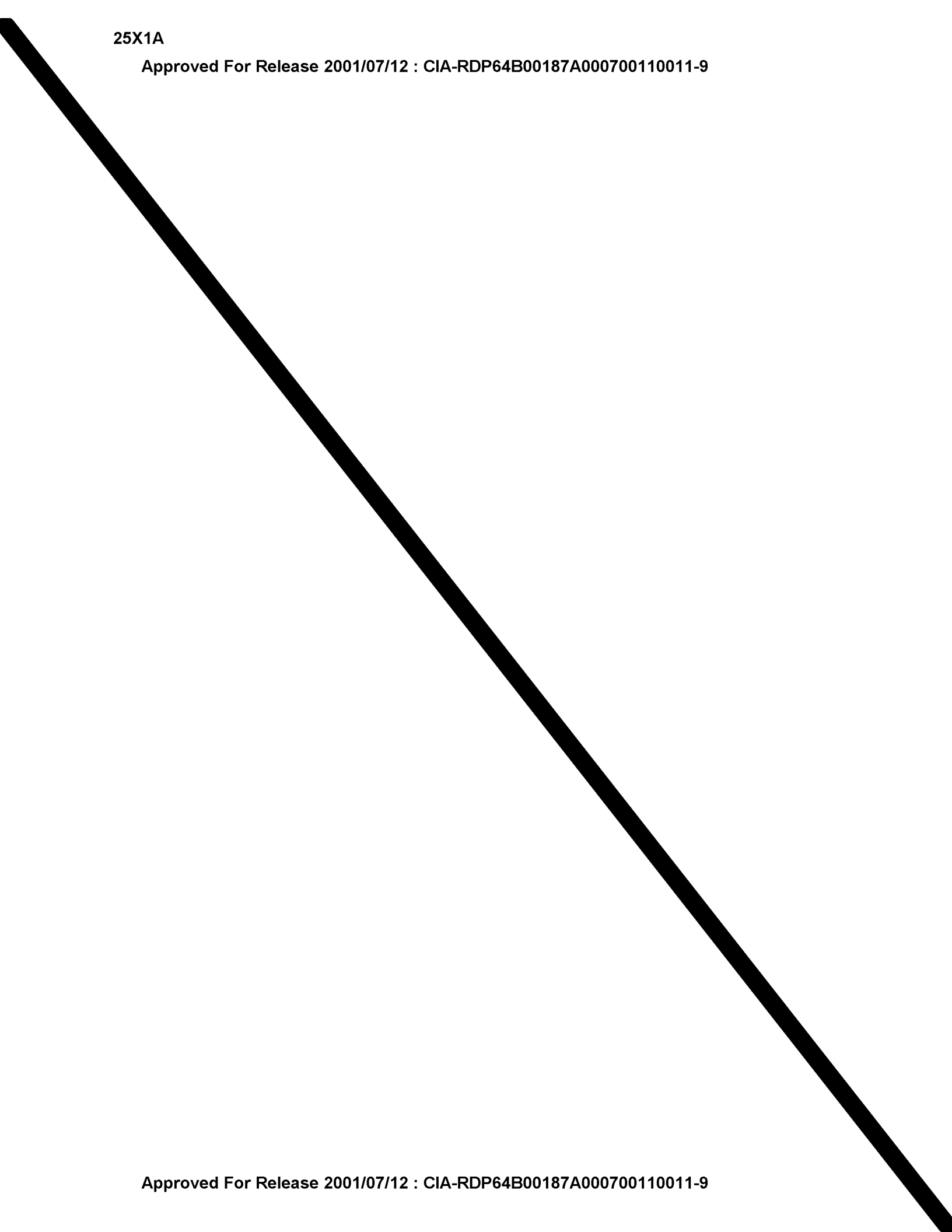

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TABLE 4

CALL CONTRACT INVENTORY FOR FEBRUARY 1960

Customer	Unit Backlog on 1 Feb. 1960	Requested During February			Units Delivered in Feb.	Units Backlog on 29 Feb. 1960
		Production Lists	Total Line Items	Total Units		
A	158	5	14	35	78	115
C	442	3	74	369	269	542
D	0	0	0	0	0	0